

NWS FORM E-5
(11-88)
(PRES. BY WSOM E-41)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

HYDROLOGIC SERVICE AREA (HSA)

WFO Jackson, Mississippi

MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS

REPORT FOR:

MONTH

YEAR

October

2001

TO: Hydrometeorological Information Center, W/OH2
NOAA / National Weather Service
1325 East West Highway, Room 7230
Silver Spring, MD 20910-3283

SIGNATURE

Jim Stefkovich, MIC
In Charge of HSA

DATE

November 8th, 2001

When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (WSOME-41)

We had several weather systems push through the HSA during the month of October.

A frontal system pushed through the area on Friday October 5th giving us .50 to 2.50 inches of rain. The heaviest rain was over the Lower Yazoo River where 2.67 inches fell at Valley Hill, MS.

A strong frontal system, warm moist air and a series of upper air disturbances pushed across the area from early Thursday October 11th to late Saturday October 13th. Heavy rainfall fell over southeast AR, the lower Yazoo, Big Black, Upper Pearl, southern portions of the Lower Pearl, and portions of the Upper & Middle Pascagoula River System. Some 4 day rainfall totals: Arkansas City, AR 7.43"; Lomardy, MS; 7.32"; Raleigh, MS 7.13"; Hattiesburg, MS 6.74"; Waldrup, MS 6.58"; Dermott, AR 6.50"; Forest, MS 6.35; Kosciusko 13SSE, MS 5.50"; Oakgrove, LA 4.77".

A fast moving frontal system pushed through the area Wednesday October 24th bringing with it rainfall amounts less than .50 inches to most areas.

Prior to the mid October rain event, soils were allowed to dry out from the high soil moisture conditions which prevailed in early September. Considering the high rainfall totals which fell, only several rivers went above flood stage due to this mid October rainfall event. Five to six inches of rainfall fell over the Upper Big Black River basin causing only minor flooding. Four to six inches fell over upper portions of Tuscolameta Creek in the Upper Pearl River basin also causing only minor flooding. Six to seven inches of rain fell over northern Sunflower and southern Coahoma Counties causing the Big Sunflower to experience minor flooding. The remaining rivers in the HSA experienced minor to moderate rises.

The heavy rainfall event in the middle of the month produced well above normal rainfall totals for the month over most areas of the HSA:

<u>RIVER BASIN</u>	<u>RAINFALL</u>	<u>DEPARTURE FROM NORMS</u>
<i>Southeast Arkansas (Chicot & Ashley counties)</i>	<i>5.00 to 8.50 inches</i>	<i>Much above normal</i>
<i>northeast Louisiana (Tensas, Boeuf, Bayou Macon & Lower Ouachita)</i>	<i>4.50 to 7.50 inches</i>	<i>Slightly above to much above normal</i>
<i>Lower Yazoo</i>	<i>3.50 to 7.50 inches</i>	<i>Normal to much above normal</i>
<i>Big Black</i>	<i>3.50 to 7.50 inches</i>	<i>Normal to much above normal</i>
<i>Homochitto/ Bayou Pierre</i>	<i>4.50 inches</i>	<i>Slightly above normal</i>
<i>Pearl (abv Jackson)</i>	<i>3.50 to 6.00 inches</i>	<i>Normal to much above normal</i>
<i>Pearl (Blo Jackson)</i>	<i>2.75 to 6.75 inches</i>	<i>Slightly below normal to normal except above normal in southeastern portions of the basin</i>
<i>Pascagoula</i>	<i>5.50 to 8.00 inches</i>	<i>Much above normal</i>

The heaviest rainfall amounts in the HSA for the month were 8.82 inches near Arkansas City, AR; 8.55 inches at Ackerman, MS; 8.10 inches at Forest, MS; 7.89 inches at Raleigh; 7.87 inches at Tallulah, LA; 7.50 at Dermott, AR; and 7.29 at Laurel, MS.

Here at the WFO, the monthly rainfall was 3.41 inches, which was 0.15 inches above normal. Our total for the calendar year ending October 31st stands at 53.69 inches, which is 9.04 inches above normal.

The Mississippi River remained below seasonal norms during the first half of the month; however, the during the second half of the month, river stages were higher than the seasonal norms. The provisional high and low stages for October are listed below:

<i>Location</i>	<i>High Stage(ft)</i>	<i>Date</i>	<i>Low Stage(ft)</i>	<i>Date</i>
<i>Arkansas City, AR</i>	<i>12.13</i>	<i>10/31</i>	<i>-0.85</i>	<i>10/11</i>
<i>Greenville, MS</i>	<i>23.54</i>	<i>10/31</i>	<i>10.71</i>	<i>10/11</i>
<i>Vicksburg, MS</i>	<i>16.02</i>	<i>10/31</i>	<i>3.50</i>	<i>10/12</i>
<i>Natchez, MS</i>	<i>22.37</i>	<i>10/28</i>	<i>10.45</i>	<i>10/12</i>

Flood Warnings (FLW'S) issued: 6
Flood Statements (FLS'S) issued: 38
Daily Rainfall Reports (RRA'S) issued 31
Daily River Forecasts (RVS'S) issued 31
Daily River Stages (RVA'S) issued 31

Marty V. Pope
Service Hydrologist

cc: USGS Little Rock District
USGS Ruston District
USCE Mobile District
USCE Vicksburg District
USCE Mississippi Valley Division
USGS Mississippi District
SRH Climate, Weather and Water Division
LMRFC
Pearl River Valley Water Supply District
Hydrologic Information Center
Southern Region Climate Center